

QC ABSTRACT

NAME OF WORK: "Construction of Toilets at Govt PU Collage in Kempegowda Ward No-01 of Yelahanka Sub Division"

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Fineness by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
2	Coarse aggregate(40 mm down size)	Compressive Strength	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
3	Coarse aggregate(20 mm down size)	Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
4	Fine aggregate	Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Block(400*100*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	2 set / 1-5 cum	6.6	4	4
9	RMC(M25)	Compressive Strength(7days and 28days)	4 set / 31-100 cum	6.6	8	8
10	RCC(M25)	Compressive Strength(7days and 28days)	4 set / 31-100 cum	1.15	8	8

11	CERAMIC TILES	MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS	One Test		1	1
		MODULUS OF RUPTURE AND BREAKING STRENGTH	One Test		1	1
12	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1



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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2021-02-17-34 **Date:** 09-07-20
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : "Construction of Toilets at Govt PU Collage in Kempegowda Ward No-01 of Yelahanka Sub Division"
Agency : Sri. Chaitra Poomina K. V (N C K Infra Tech), 4th Floor, Patel Nangegowda Layout, Kcdigichalli, Sahakranagara Bangalore-560092
Customer's Reference : BBMP/EE/YNK.D/EPMT-02/W.O/86/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-07-20
Sample Type : Birla Super 53 grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification, IS 4031 (Part 1,2,3,4,5, 6,11):1983
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY, Clause 6

Date of test : 07-07-20
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	-
2	Fineness by Air permeability method ($m^2/kg, Min$)	285.4	225 $m^2/kg, Min$
3	Density (gm/cc)	3.12	-
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.
Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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R. Rudraprasad
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Authorized Signatory
Technical Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 04-08-20

Lab ID : CP-2021-02-17-34

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : "Construction of Toilets at Govt PU Collage in Kempegowda Ward No-01 of Yelahanka Sub Division"

Agency : Sri. Chaitra Poornima K V (N C K Infra Tech), 4th Floor, Patel Nangegowda Layout, Kodigehalli, Sahakranagara Bangalore-560092

Customer's Reference : BBMP/EE/YNK.D/EPMT-02/W.O/86/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-07-20

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 07-07-20

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
SL.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	55.0N/mm ²	Not less than 53 N/mm ²

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Authorized Signatory
Technical Manager



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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-02-17-34 Date: 08-07-20
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : "Construction of Toilets at Govt PU Collage in Kempegowda Ward No-01 of Yelahanka Sub Division"
Agency : Sri. Chaitra Poornima K V (N C K Infra Tech), 4th Floor, Patel Nangegowda Layout, Kodigehalli, Sahakaranagara Bangalore-560092
Customer Reference : BBMP/EE/YNK.D/EPMT-02/W.O/86/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-07-20
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 06-07-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2021-02-17-34

Date: 08-07-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	—
4	Bulk Density(Loose) (Kg/l)	1.54	—
5	Bulk Density(Compacted) (Kg/l)	1.58	—
6	Water Absorption(%)	0.22	—
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Technical Manager

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TEST REPORT OF FINE AGGREGATE

Date: 08-07-20

Lab ID : CP-2021-02-17-34
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : "Construction of Toilets at Govt PU Collage in Kempegowda Ward No-01 of Yelahanka Sub Division"
Agency : Sri. Chaitra Poornima K V (N C K Infra Tech), 4th Floor, Patel Nangegowda Layout, Kodigehalli, Sahakaranagara Bangalore-560092
Customer's Reference : BBMP/EE/YNK.D/EPMT-02/W.O/86/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-07-20
Sample Type : Fine Aggregate
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 : 1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 06-07-20

AE-1
1
A.E.E

Total weight taken : 1000 grams

Sl.No	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID : CP-2021-02-17-34 Date: 23-07-20

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : "Construction of Toilets at Govt PU Collage in Kempegowda Ward No-01 of Yelahanka Sub Division"

Agency : Sri. Chaitra Poornima K V (N C K Infra Tech), 4th Floor, Patel Nangegowda Layout, Kodigehalli, Sahakranagara Bangalore-560092

Customer's Reference : BBMP/EE/YNK.D/EPMT-02/W.O/86/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-07-20

Sample Type/Size : Solid concrete blocks size (400X100X200)mm

Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification
Part 1: Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and 10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)

Date of test : 21-07-20

BLOCK DENSITY:

Sl No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁶	Avg. Block Density in (Kg/cum)	As per IS 2185(Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	403	101	203	8263	32.536	3937.7	3976.9	Not less than 1800Kg/m ³
2	401	103	201	8302	33.975	4092.4		
3	401	99	202	8019	31.278	3900.4		

WATER ABSORPTION:

Sl No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg. Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Date: 23-07-20

Lab ID : CP-2021-02-17-34

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm ²)	(KN)	N/mm ²	(N/mm ²)
1	400	201	80457	414.4	5.2	5.2
2	400	199	79672	414.3	5.2	
3	399	201	80393	415.1	5.2	
4	403	201	80968	415.5	5.1	
5	400	201	80379	412.7	5.1	
6	400	203	81030	412.6	5.1	
7	399	201	80155	414.0	5.2	
8	403	199	80439	418.1	5.2	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm ²	4.00 N/mm ²
C (4.0)	4.00 N/mm ²	3.20 N/mm ²

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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/07/2020

Lab ID : CP-2021-02-17-34
 Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
 Address : Yelahanka Sub Division, BBMP, Bangalore.
 Project Name : "Construction of Toilets at Govt PU Collage in Kempegowda Ward No-01 of Yelahanka Sub Division"
 Agency : Sri. Chaitra Poornima K V (N C K Infra Tech), 4th Floor, Patel Nangegowda Layout, Kodigehalli, Sahakranagara Bangalore-560092
 Customer's Reference : BBMP/EE/YNK.D/EPMT-02/W.O/86/2020-21
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 15-07-20
 Customer ID : PCC
 Sample Type / Size : 150X150X150 mm
 Sample grade/Age : M15 / 7 Days Compressive Strength
 Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 20/07/2020

Reference to BIS codes

Date of test : 20/07/2020

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	13/07/2020	20/07/2020	149.47 X	22513	8.227	271.6	12.1	12.5
					150.62 X					
					150.13					
2	PCC	M15	13/07/2020	20/07/2020	151.25 X	22682	8.357	288.0	12.7	
					149.97 X					
					149.55					
3	PCC	M15	13/07/2020	20/07/2020	150.96 X	22558	8.843	285.3	12.6	
					149.43 X					
					149.98					

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/07/2020

Lab ID : CP-2021-02-17-34
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : "Construction of Toilets at Govt PU Collage in Kempegowda Ward No-01 of Yelahanka Sub Division"
Agency : Sri. Chaitra Poomima K V (N C K Infra Tech), 4th Floor, Patel Nangegowda Layout, Kodigehalli, Sahakranagara Bangalore-560092
Customer's Reference : BBMP/EE/YNK D/EPMT-02/W.O/86/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 22-07-20
Customer ID : Plinth Beam Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M25 / 7 Days Compressive Strength
Reference to BIS codes : IS. 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 27/07/2020

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Plinth Beam Concrete	M25	20/07/2020	27/07/2020	151.26 X 151.43 X 149.79	22905	8.983	547.5	23.9	23.1
2	Plinth Beam Concrete	M25	20/07/2020	27/07/2020	151.56 X 151.86 X 151.82	23016	8.498	529.1	23.0	
3	Plinth Beam Concrete	M25	20/07/2020	27/07/2020	150.43 X 151.96 X 150.61	22860	8.841	512.7	22.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/08/2020

Lab ID : CP-2021-02-17-34
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : "Construction of Toilets at Govt PU Collage in Kempegowda Ward No-01 of Yelahanka Sub Division"
Agency : Sri. Chaitra Poornima K V (N C K Infra Tech), 4th Floor, Patel Nangegowda Layout, Kodigehalli, Sahakaranagara Bangalore-560092
Customer's Reference : BBMP/EE/YNK D/EPMT-02/W.O/86/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 27-07-20
Customer ID : Column Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M25 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/08/2020

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Column Concrete	M25	25/07/2020	22/08/2020	149.33 X 149.07 X 149.01	22261	8.400	610.0	27.4	27.5
2	Column Concrete	M25	25/07/2020	22/08/2020	151.72 X 151.28 X 151.82	22953	8.852	602.8	26.3	
3	Column Concrete	M25	25/07/2020	22/08/2020	150.62 X 151.16 X 150.14	22766	8.504	656.1	28.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/08/2020

Lab ID : CP-2021-02-17-34
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : "Construction of Toilets at Govt PU Collage in Kempegowda Ward No-01 of Yelahanka Sub Division"
Agency : Sri. Chaitra Poornima K V (N C K Infra Tech), 4th Floor, Patel Nangegowda Layout, Kodigehalli, Sahakaranagara Bangalore-560092
Customer's Reference : BBMP/EE/YNK.D/EPMT-02/W.O/86/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-08-20
Customer ID : Lintel Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M25 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/08/2020

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Lintel Concrete	M25	01/08/2020	29/08/2020	149.84 X 149.94 X 151.30	22468	8.400	627.2	27.9	27.9
2	Lintel Concrete	M25	01/08/2020	29/08/2020	151.58 X 150.01 X 151.78	22739	8.852	612.5	26.9	
3	Lintel Concrete	M25	01/08/2020	29/08/2020	150.95 X 149.19 X 150.70	22521	8.504	648.8	28.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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R. Rudraprasad
Authorized Signatory
Technical Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TESTING SERVICES |

TEST REPORT FOR SAND MASONRY MORTARS

Date: 10-08-20

Lab ID : CP-2021-02-17-34

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : "Construction of Toilets at Govt PU Collage in Kempegowda Ward No-01 of Yelahanka Sub Division"

Agency : Sri. Chaitra Poornima K V (N C K Infra Tech), 4th Floor, Patel Nangegowda Layout, Kodigehalli, Sahakaranagara Bangalore-560092

Customer's Reference : BBMP/EE/YNK.D/EPMT-02/W.O/86/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-08-20

Sample Type : Fine Aggregate, M.Sand for Mortar

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 07-08-20

Total weight taken : 1000 grams

Slno	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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BANGALORE

Format No: CP/TF/2017

TEST REPORT FOR PLASTER SAND

Date: 11-08-20

Lab ID : CP-2021-02-17-34
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : "Construction of Toilets at Govt PU Collage in Kempegowda Ward No-01 of Yelahanka Sub Division"
Agency : Sri. Chaitra Poornima K V (N C K Infra Tech), 4th Floor, Patel Nangegowda Layout, Kodigehalli, Sahakranagara Bangalore-560092
Customer's Reference : BBMP/EE/YNK.D/EPMT-02/W.O/86/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 07-08-20
Sample Type : Plaster Sand
Reference to BIS codes : IS: 383 : 2016 (Specification for Coarse and fine Aggregates)
IS1542:1992 (Sand for Plaster - Specification)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 07-08-20

Total weight taken : 1000 grams

Slno	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

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Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

TEST REPORT OF CERAMIC TILES**WATER ABSORPTION**

SLNo	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1406	1455	3.49	2.85
2	1424	1464	2.81	
3	1464	1498	2.32	
4	1408	1454	3.27	
5	1434	1468	2.37	

MODULUS OF RUPTURE AND BREAKING STRENGTH

SLNo	Dimension (mm)			Wet Transverse Strength	Average
SLNo.	L	B	T	(N/mm ²)	(N/mm ²)
1	300	300	6.04	14.8	14.66
2	300	300	6.06	14.2	
3	300	300	6.02	14.9	
4	300	300	6.06	14.8	
5	300	300	6.05	14.6	

* The results obtained are satisfactory as per standard requirements.

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R. Rudraprasad
R RUDRAPRASAD

Authorized Signatory
Technical Manager